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MATERIALS SERVICE.

OHIO VOCAT. AGR. INSTR. MATERIALS SER., COLUMBUS

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MANAGEMENT, AGRONOMY, OHIO,

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TECHNICAL SPECIALISTS, AND AUDIOVISUAL PERSONNEL AND ARE  
CATEGORIZED UNDER FIELD CROPS, HORTICULTURE, ANIMAL SCIENCE,  
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SPRING 1968

# CURRICULUM MATERIALS

DESCRIPTION AND PRICE LIST OF MATERIALS

DEVELOPED BY THE

OHIO VOCATIONAL AGRICULTURE CURRICULUM MATERIALS SERVICE

Ohio Vocational Agriculture  
Curriculum Materials Service  
Room 201, 2120 Fyffe Road  
Columbus, Ohio 43210

# MEMORANDUM

TO: The ERIC Clearinghouse on Vocational and Technical Education  
The Ohio State University  
980 Kinnear Road  
Columbus, Ohio 43212

FROM: (Person) Harlan E. Ridenour (Agency) Agricultural Education, Curriculum Materials Service  
(Address) Room 201, 2120 Fyffe Road, Columbus, Ohio 43210

DATE: 18 March 1968

RE: (Author, Title, Publisher, Date) Curriculum Materials, Description and Price List, Agricultural Education Curriculum Materials Service, 1968, The Ohio State University.

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Source (agency)   
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## **CURRICULUM MATERIALS**

Vocational Agriculture teachers have the responsibility of developing curriculum for their local departments. An integral part of curriculum development is planning learning experiences for students. A complete library of instructional materials enables teachers to provide a wide range of meaningful learning experiences.

The materials listed in this catalog have been developed by teachers of vocational agriculture, curriculum specialists, technical specialists, and audiovisual personnel for use in teaching vocational agriculture.

The charge for the materials is to provide funds to replace the items as they are sold out. Development costs are not included.

Use the Order Form attached to the back of the catalog. A School Purchase Order or cash should accompany each order.

## **FIELD CROPS Agdex 100**

**AN AID TO THE IDENTIFICATION OF 60 OHIO PLANTS**, Agdex 100/40. Revised 1966, 23 pages. A brief description and illustration of the plants included in the Ohio agronomy and horticulture contests. It is written for student use. Price \$.75.

**SOME COMMON CROP AND WEED PLANTS**, Agdex 100/40, 1966. A series of 79 color slides with script to accompany the publication, "An Aid to the Identification of 60 Ohio Plants." The series includes overall views of plants as well as close ups of important details. Price \$12.00.

**FUNDAMENTALS OF PLANT IDENTIFICATION**, Student Work Sheets. Agdex 100/40, 1967, 10 pages. A set of student work sheets designed to familiarize students with the important identifying characteristics of plants. The work sheets should be used with the slide series of the same name and become a part of the student's notebook. Price \$.15.

**FUNDAMENTALS OF PLANT IDENTIFICATION**, Agdex 100/40, 1966. A series of 18 color slides and script which illustrate, by means of sketches, the important identifying characteristics of plants. The student work sheets of the same name should be used with the series. Price \$3.00.

**SOME IDENTIFYING CHARACTERISTICS OF 52 OHIO SEEDS**, Agdex 100/40, 1965, 16 pages. A brief description and illustration of the seeds included in the Ohio agronomy contest. The publication is designed for student use. Price \$.80.

**SOME COMMON CROP AND WEED SEEDS**, Agdex 100/40, 1966. A series of 52 color slides and script to accompany the publication, "Some Identifying Characteristics of 52 Ohio Seeds." The series includes close-up views of the crop and weed seeds included in the Ohio agronomy contest. Price \$8.00.

**SEED PRODUCTION OF SOME COMMON FIELD CROPS**, Agdex 100/40, 1966, 65 pages. A student study manual which considers the importance of the seed industry, losses from using poor seed, how plants produce seeds, crop varieties, production of certified seed, and seed laws. Price \$1.75.

**SEED PRODUCTION EXAMINATION**, Agdex 100/40, 1966. A suggested examination consisting of 48 objective questions that may be used with the publication, "Seed Production of Some Common Field Crops." Price \$.10.

**RATE OF PLANTING CORN**, A Laboratory Exercise, Agdex 111/32, 1963, 31 pages. A laboratory exercise designed to be used with a corn planting unit in the shop to check plate selection and accuracy of drop at different speeds of operation. Information concerning the most effective rate to plant corn is included. Nine full page charts that may be made into transparencies are included. Price \$.50.

**CORN ROOT DEVELOPMENT**, Agdex 111/20, 1964. A series of 21 color slides with script developed by Dr. Henry D. Foth, Department of Soil and Dr. Raymond Clark, Department of Agricultural Education, Michigan State University. The slides show the extent of corn root development at different stages of plant growth from the seedling stage to maturity. The soil has been carefully pulled away from the roots and the root pattern photographed. The corn was grown on medium textured soil and yielded well over 100 bushels per acre. Price \$5.50.

**FIELD CROPS, Agdex 100 (Continued)**

**MAIZE DWARF MOSAIC, Agdex 111/630, 1965.** A series of 24 color slides and script. The slides and script were prepared by Dr. Lansing Williams of the Ohio Agricultural Research and Development Center. The series shows how to identify the disease, how it spreads and the available control measures. A copy of the Ohio Bulletin 460 "Maize Dwarf Mosaic" should be used as an additional reference source by the teacher. Price \$4.80.



## HORTICULTURE Agdex 200

**LANDSCAPING YOUR HOME, A Teacher's Guide, Agdex 271, 1964, 72 pages.** This is a guide to teachers who are starting to teach in a relatively unfamiliar field. The unit includes suggestions to teachers as to methods as well as to the major technical areas to be included. A number of suggested tests and student exercises are incorporated. Price \$1.00.

**ESTABLISHMENT AND MAINTENANCE OF LAWNS, A Teacher's Guide, Agdex 273, 1965, 59 pages.** This unit has been prepared as a guide to teachers. Technical information has been divided into logical areas for teaching. The establishment of new lawns and the maintenance of established lawns is included. Price \$1.00.

**CARE AND MANAGEMENT OF LAWNS, Agdex 273, 1965.** A series of 41 color slides with script. May be used with the Teacher's Guide, "Establishment and Maintenance of Lawns." The series was developed by Dr. Robert W. Miller, Assistant Professor of Agronomy, The Ohio State University. It deals with the following areas of lawn management: seed selection, seeding, fertilizing, mowing, weed control, disease control, watering, and thatch control. Price \$6.00.

**WHAT IS HORTICULTURE? Agdex 200, 1966.** A series of 40 color slides and script. The major subject matter offerings in horticulture are described. Student school activities and job opportunities are considered. May be used with groups considering offering horticulture in their school or with beginning students. Price \$6.00.

**PRUNING FOR GARDEN BEAUTY, Agdex 275/24, 1966.** A series of 21 color slides and script. Prepared by D. B. Lacey, Rutgers. Provides hints for pruning evergreens, flowering shrubs, roses, and trees. Price \$3.25.

**FLORICULTURAL CROPS, Agdex 280, 1966.** A series of 60 color slides and script. The objective of this slide series is to introduce vocational horticulture students to the major floriculture crops produced in the United States today. Individual crops are discussed briefly as to types and varieties available, some of the specific cultural requirements, and the uses of the plants by the ultimate consumer. Price \$9.50.

**FLOWERS FOR GARDEN COLOR, Agdex 280, 1966.** A series of 29 color slides and script. Prepared by D. B. Lacey and M. R. Harrison, Rutgers University. Describes how many common flowers may be used to their best advantage in landscape planning. Price \$4.25.

**GREENHOUSES AND RELATED STRUCTURES, Agdex 200/731, 1967.** A series of 62 color slides and script. Prepared by Richard Henley of The Ohio State University for the Curriculum Materials Service. The objective of this slide series is to familiarize students with the various kinds of greenhouse structures and facilities. The slide series is directed into sections and the sections can be viewed at different times with the class. The sections are as follows: greenhouses; use of greenhouses; greenhouse shapes, covering materials; greenhouse heating, ventilating and cooling; and related structures. Price \$9.50.

## **ANIMAL SCIENCE Agdex 400**

**LIVESTOCK MARKETING**, Agdex 400/840, 1966, 128 pages. A livestock marketing manual presented in lesson plan outline form. A total of 30 topic questions covering general livestock, beef cattle, swine, and sheep marketing. References and other audiovisual materials are either duplicated in the manual or their source is indicated. Student exercises and exams are included. Developed by Paul Hartsook, Teacher of Vocational Agriculture, Bowling Green, Ohio, and Harlan Ridenour, The Ohio State University. Price \$1.75.

**DAIRY CATTLE STERILITY**, Agdex 410/30, 1965. A series of 45 color slides and script. The slides illustrate both normal and abnormal conditions in the male and female reproductive tracts. The series has been organized into lessons that correspond to the lessons in the Hoard's Dairyman book "Dairy Cattle Sterility." Script prepared by Dr. Harry Barr, Dairy Science, The Ohio State University. Slides provided by Dr. Barr and Michigan State University Animal Reproduction Laboratory. Price \$6.50.

**STEER MANAGEMENT**, Resource Unit, Agdex 420, 1964, 81 pages. The unit structures the subject matter for teaching, suggests approved practices, and supplies related information. Price \$.75.

**GESTATION LACATION PERIOD MANAGEMENT OF SOWS AND GILTS**, Agdex 440/10, 1966. A series of 23 color slides and script. The slides and script were made available by Dr. R. F. Wilson, Animal Science, The Ohio State University. The series considers both feeding and management suggestions. It might be used to introduce the unit. Local or other research information may be added as needed. Both animated drawings and actual pictures are used. Price \$3.75.

**THE OHIO PORK IMPROVEMENT PROGRAM**, Agdex 440/40. Revised 1966. A series of 18 color slides and script. Mr. Wilbur Bruner, Swine Extension Specialist, The Ohio State University, provided the slides and edited the script. The major findings of the Swine Testing Station are presented in the series. Price \$3.50.

**HOW MUCH FEED IS REQUIRED TO PRODUCE A POUND OF PORK**, Agdex 440/53, 1964, 10 pages. Information gathered from Iowa and Illinois research data. There are seven full page charts suitable for use with the overhead or opaque projector. Price \$.20.

**LIVESTOCK BREEDING**, Agdex 400/30, 1967, 194 pages. A student reference (not a workbook) designed to assist students in gaining an understanding of important concepts in livestock breeding. Problems and exercises are used to provide opportunities for students to apply the concepts in realistic situations. The book is well illustrated. Concepts general to all livestock breeding problems are concerned as well as specific references to dairy, beef, swine, and sheep problems. Price \$2.00.



## **SOILS Agdex 50.**

**CORN FERTILITY PRACTICES IN OHIO** (Agronomy Series #1) Agdex 540, 1962. A series of 49 color slides and script. The slides were provided by the O. S. U. Department of Agronomy Extension Service. The recommended fertility practices for corn are illustrated by the slides. The script provides a brief description of the slides. Price \$7.35.

**CORN PRODUCTION PRACTICES** (Agronomy Series #2) Agdex 510, 1962. A series of 17 color slides and script. The slides were provided by the O. S. U. Department of Agronomy Extension Service. The series briefly covers minimum tillage and rate of planting. The script provides an extensive description of each slide. Price \$2.55.

**INTERPRETING SOIL TESTS** (Agronomy Series #3) Agdex 530, 1962. A series of 65 color slides and script. The slides were provided by the O. S. U. Department of Agronomy Extension Service. The series discusses the extent of soil testing, liming, sampling, testing, recommendations, and fertility status. The script is brief as many slides are self explanatory. Price \$9.75.

**KNOW YOUR LAND**, Agdex 520, 1967. A series of 44 color slides and script. The slides were developed by David Hinson, Soil Conservation Service, U. S. Department of Agriculture for the Curriculum Materials Service. The slide series is based upon the score card used in the Ohio Land Judging Contest. Each section of the score card is explained by one or more slides. Price \$6.75.

**LIMING ACID SOILS FOR MORE PROFITABLE FARMING**, Agdex 534, 1963. A series of 95 color slides and script. The slides were prepared by Dr. Harold E. Shoemaker, Extension Agronomist, The Ohio State University. The slide series provides a comprehensive coverage of the problems of liming. The series may be used with adults as well as high school students. The series may be divided into three sections of about equal length. The sections are: why lime, soil testing, and evaluation of liming materials and their application. Price \$14.00.

**TIME TO RELIME**, Agdex 534, 1968. A series of 58 color slides, script, and tape (length 20 min., speed 3 3/4 ips). The slide series was prepared by Dr. Harold E. Shoemaker, Extension Agronomist, The Ohio State University. The series develops the reasons for reliming as follows: (1) erosion, (2) teaching, (3) crop removal, and (4) acid forming fertilizer. In conclusion the slide series considers how to why to relime. Price of the slide series, script, and tape, \$11.50.

## AGRICULTURAL ENGINEERING Agdex 700

**CONCRETE MASONRY**, Agdex 715, 1962. A series of 55 color slides and script. The series deals with the selection and handling of concrete blocks, preparing mortar, laying blocks, construction practices to insure durable walls, and cement painting. The series was prepared by the Ohio Vocational Agriculture Service and the Portland Cement Association. Price \$8.25.

**MR. QUALITY CONCRETE**, Agdex 715, 1965. A series of 40 color slides. The slides are self explanatory thus no script is provided. The slide series is designed to accompany the Portland Cement Association's "Concrete Technology" instructor's guide available from the Portland Cement Association, 33 West Grand Avenue, Chicago, Illinois 60610. Copies have been distributed to Ohio teachers. The slide series is only available through the Ohio Vocational Agriculture Curriculum Materials Service. Price \$6.00.

**COMBINES AND COMBINING**, Agdex 745, Revised 1968, 102 pages. A manual structured for student use. It is extensively illustrated by means of line drawings, charts, graphs, and pictures. The subject matter is divided into the following areas: (1) What is the value of doing a good job of combining? (2) The basic design of the combine. (3) The operation of the combine. (4) The economics of owning a combine. Price \$1.00.

**COMBINES AND COMBINING EXAMINATION**, Agdex 745, 1965. A suggested examination consisting of 50 objective questions that may be used with the publication, Combines and Combining. Price \$.10.

**COMBINES AND COMBINING**, Agdex 745, Revised 1963. A series of 34 color slides and script. The slide series is designed to accompany the manual, Combines and Combining, listed above. The slides have been selected from several hundred provided by the Allis Chalmers, J. I. Case, and International Harvester Companies. The design of the combine and the principles of operation are illustrated. Price \$5.10.

**EFFICIENT MACHINE HARVESTING**, Agdex 745, 1965. A series of 21 color slides. A series of slides developed by Dr. D. M. Byg, Extension Agricultural Engineer, The Ohio State University, in connection with his corn harvesting loss surveys. The results are shown in graphic form on the slides. The Ohio Extension Service publication MM 268, Machine Losses-Corn, should be available for teacher reference. This publication has been distributed to Ohio teachers. Price \$3.50.

**MOWERS**, Agdex 745, 1966, 58 pages. A student workbook designed to assist students in understanding the principles of cutterbar operation and in applying the knowledge to the operation and repair of the mower. An excellent reference for use with the workbook is "Field Mowers" produced by the American Association for Agricultural Engineering and Vocational Agriculture, Agricultural Engineering Building, Athens, Georgia 30601. Price \$.75.

## **AGRICULTURAL ECONOMICS Agdex 800**

**FARM BUSINESS PLANNING, ADJUSTING BUILDING, EQUIPMENT, AND MACHINERY INVESTMENTS TO NEW FARMING PROGRAM**, Agdex 811, 1963, 18 pages. A student workbook to assist the student in identifying overhead costs in the farm business. Price \$.10.

**FARM BUSINESS PLANNING AND ANALYSIS**, Agdex 811, 1963, 32 pages. A student workbook to assist students in formulating a farm and home plan. It should contribute to the student's understanding of the total farm business. Price \$.25.

**FARM BUSINESS PLANNING AND ANALYSIS TEACHING UNITS**, Agdex 811, 1963, 28 pages. A teacher's guide to accompany the above two workbooks. Price \$.50.

**FARM RECORDS - A MANAGEMENT TOOL**, Agdex 818, 1964, 69 pages. The subject matter has been organized into a logical sequence for teaching farm accounting using the Ohio Commercial Farm Account Book. Price \$1.00.

**FARM BUSINESS PLANNING AND ANALYSIS FILING SYSTEM**, Agdex 818. Revised 1968. Eight page instructional manual and four sheets of gummed labels. The filing system is designed to assist farmers in organizing and filing for ready reference the many papers that are associated with farm record keeping and the analyzing and planning of the farm business. One filing system per individual farmer. Price \$1.00.

**BUSINESS PROCEDURES USED IN THE AGRICULTURAL SERVICES**, Agdex 835, 1966, 175 pages. A student workbook designed to help students understand the business operations of the many companies supplying materials and services to the operating farmers. Practice in preparing the business forms is provided for the student. The unit may be used in the sequence in which it is printed or sections may be used when they apply to the teacher's course of study. The entire unit would require about one semester. Price \$2.25.

**TEST AND ANSWER SUPPLEMENT FOR BUSINESS PROCEDURES USED IN THE AGRICULTURAL SERVICES**, Agdex 835, 1966. Answers are provided for the exercises that are presented in the Business Procedures workbook listed above. In addition, suggested examination questions and answers are included. Price \$2.00.

**PROFIT-MAXIMIZING PRINCIPLES**, Instructional Units for Vocational Agriculture, Agdex 820, 1967, 187 pages. Six Profit-Maximizing Principles are included in this Teacher's Guide. Illustrations are presented for each of the six principles to be taught. In studying the illustrations, the students should achieve an understanding of the principles and their application to decision making should strengthen the student's managerial ability. He will know why as well as how and what. Price \$2.00.

**OHIO FARM MANAGEMENT HANDBOOK**, Agdex 810. A collection of farm management information assembled into a three ring notebook as a ready reference guide for teachers and others to use in conducting educational programs. The materials have been prepared by the Farm Management Staff, Department of Agricultural Economics and Rural Sociology, The Ohio State University. The Farm Management Staff will revise certain pages as the need arises and new materials will be added. Your name will be kept on a mailing list and these materials will be mailed to you. Price \$2.75.



## **AGRICULTURAL ECONOMICS Agdex 800 (Continued)**

**AGRICULTURAL SUPPLIES BUSINESS AND SERVICE**, Agdex 835, 1967. A series of 15 lesson units for the agricultural supplies business and service related classes. The materials include an Instructor's Manual which accompanies the series of units, a series of 15 Student Manuals (a complete series is recommended for each student in the related class) and a Teacher's Guide for each of the 15 Student Manuals (one set per teacher is recommended). The materials are designed to provide the student with basic information needed in all of the agricultural businesses. Provision is made for the student to work out practical exercises in the student units to provide him with experiences in conjunction with his occupational experience program. Do not attempt to use the student units without the teacher having a single copy of the Instructor's Manual and a set of the Teacher's Guide available.

The following is a list of the units included in the series:

Unit No.		Pages in Student Manuals	Pages in Teacher's Guide
1	Opportunities in Agricultural Occupations	19	12
2	Orientation to Job Training	28	12
3	Billing Merchandise to Customers	32	21
4	Human Relationship in Business	40	17
5	Selling and Salesmanship	26	11
6	Business Organization	15	10
7	Credit and Interest Charges	47	24
8	Advertising and Promotion	25	12
9	Taxes and Insurance	48	16
10	Office Procedures and Records	48	17
11	Marketing Agricultural Products	33	10
12	Transportation and Storage	17	8
13	Inventory and Depreciation	19	10
14	Contracts and Leasing	19	11
15	Leadership	37	6
	Instructor's Manual, 16 pages		

Price, Instructor's Manual, \$.75; Student Manuals, 1-4 sets, \$8.25, 5 or more sets, \$5.75; one set of Teacher's Guides, \$3.45.

**OFFICE PROCEDURES USED IN THE AGRICULTURAL SERVICES**, Agdex 835, 1968. A combined text and workbook designed for the student who is working as an office clerk in an agricultural business. It deals with the record keeping of the business. Most of the office activities covered in this manual have been introduced in one or more of the 15 Student Manuals for the Related Class in Agricultural Occupations. The activities in the office are related to the remainder of the business. A "Test and Answer Supplement" has been prepared for the teacher. Each student should have a copy of the Office Procedures manual. Price: Office Procedures Used in the Agricultural Services, 84 pages, \$1.00; Test and Answer Supplement, 66 pages, \$1.00.

**COOPERATIVE AGRICULTURAL OCCUPATIONS TRAINEE**, Agdex 835. A 2 1/4" x 3 3/4" card to be carried by students released from school for occupational experience employment. The card certifies that the student is a member of the Cooperative Education Class and is signed by the principal, teacher, and student. Price \$.02 each.

## **FARMING PROGRAMS Agdex .40**

**BUDGET FACTS**, Agdex .40/22, 1966, 40 pages. The purpose of this publication is to assist students and teachers in developing meaningful budgets for livestock and crop projects. Price \$.40.

## **CURRICULUM GUIDES Agdex 010**

**AGRICULTURAL PRODUCTION**, 1967, 138 pages. The curriculum has been developed for grades 9 through 12 for those students intending to enter farming. It is designed for an indepth study in the following areas: supervised occupational experience, plant science, animal science, agricultural mechanics, farm business management, and leadership training. Price \$2.00.

**AGRICULTURAL SUPPLIES BUSINESS AND SERVICE**, 1967, 61 pages. The curriculum has been developed for the purpose of assisting local schools and teachers to plan and conduct a comprehensive instructional program to train individuals for off-farm agricultural occupations. Grades 11 and 12. Price \$1.00.

**VOCATIONAL HORTICULTURE**, 1967, 32 pages. This curriculum guide was developed to assist teachers in designing a suitable curriculum that will provide students with the necessary skills and understanding for securing employment. Price \$1.00.

**AGRICULTURAL EQUIPMENT AND MECHANICS**, 1967, 29 pages. This curriculum guide outlines a two-year program to prepare 11th and 12th grade students for entry level employment in the basic areas of Agricultural Mechanics and Equipment including mechanics, parts department, sales, machinery set-up, and management. Price \$1.00.

**PLANNING FACILITIES FOR VOCATIONAL AGRICULTURE DEPARTMENTS IN OHIO SCHOOLS**, Agdex .10/40, 1968, 16 pages. Designed to assist school administrators, boards of education, and school architects in planning satisfactory facilities for departments of vocational agriculture in Ohio schools. Price \$.75.

## **CAREERS Agdex 008**

**A FUTURE FOR YOU IN TEACHING AGRICULTURE**, Agdex 008, 1968, 32 color slides and script. A series of slides developed as an aid to teachers, counselors, and others in encouraging high school students to consider teaching vocational agriculture. Vo-Ag teachers have a unique opportunity to strengthen their profession through the recruitment of some of their best students. These slides have been planned, primarily, for use with junior and senior students in vocational agriculture classes; however, they might also be used for a variety of presentations such as civic clubs, parent and son banquets, and with freshman classes engaged in career exploration. Developed by Dr. R. J. Woodin and the AVA Recruitment Committee. Price \$4.00.



## ORDER FORM

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### Field Crops Agdex 100

Price Cost

_____	An Aid to the Identification of 60 Ohio Plants (publication)	\$ .75	_____
_____	Some Common Crop and Weed Plants (slide series)	12.00	_____
_____	Fundamentals of Plant Identification (work sheets)	.15	_____
_____	Fundamentals of Plant Identification (slide series)	3.00	_____
_____	Some Identifying Characteristics of 52 Ohio Seeds (manual)	.80	_____
_____	Some Common Crop and Weed Seeds (slide series)	8.00	_____
_____	Seed Production of Some Common Field Crops (publication)	1.75	_____
_____	Seed Production Examination	.10	_____
_____	Rate of Planting Corn (publication)	.50	_____
_____	Corn Root Development (slide series)	5.50	_____
_____	Maize Dwarf Mosaic (slide series)	4.80	_____

### Horticulture Agdex 200

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No. of Copies		Price	Cost
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_____	Gestation Lactation Period Management of Sows & Gilts (slide series)	3.75	_____
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_____	How Much Feed is Required to Produce a Pound of Pork (publication)	.20	_____
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	<b>Soils Agdex 500</b>		
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_____	Interpreting Soil Tests (Agronomy Series #3)	9.75	_____
_____	Know Your Land (slide series)	6.75	_____
_____	Liming Soils for More Profitable Farming (slide series)	14.00	_____
_____	Time to Relime (slide series and tape)	11.50	_____
	<b>Agricultural Engineering Agdex 700</b>		
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_____	Mr. Quality Concrete (slide series)	6.00	_____
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	<b>Agricultural Economics Agdex 800</b>		
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_____	Farm Business Planning and Analysis (publication)	.25	_____
_____	Farm Business Planning and Analysis Teaching Units (publication)	.50	_____
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